		Pushing the En	velope
		2002 Mathem	•
		Content Stand	
<b>New Mexico Mathem</b>	atics		
Grade 5			
Activity/Lesson	State	Standards	
			Solve measurement problems using appropriate
History of Aviation			tools involving length, perimeter, weight,
Propulsion (pgs. 5-9)	NM	MA.5.5.M.2.1	capacity, time, and temperature.
			Select and use strategies to estimate
History of Aviation			measurements including length, distance,
Propulsion (pgs. 5-9)	NM	MA.5.5.M.2.2	capacity, and time.
			Understand properties (e.g., length, area,
Objective (marc OF			weight, volume) and select the appropriate type
Chemistry (pgs. 25-	NINA	NAA 5 5 NA 1 1	of unit for measuring each using both U.S.
41)	NM	MA.5.5.M.1.1	customary and metric systems.
Chemistry (pgs. 25-			Solve measurement problems using appropriate tools involving length, perimeter, weight,
41)	NM	MA.5.5.M.2.1	capacity, time, and temperature.
Physics and Math	INIVI	IVIA.3.3.IVI.2.1	Compute the value of the expression for specific
(pgs. 43-63)	NM	MA.5.5.A.2.1	numerical values of the variable.
Physics and Math	INIVI	IVI/A.O.O./A.Z. I	numerical values of the variable.
(pgs. 43-63)	NM	MA.5.5.A.2.2	Use a letter to represent an unknown number.
(Pgc. 10 00)		100.00000000000000000000000000000000000	Organize and display single-variable data in
			appropriate graphs and representations and
Physics and Math			determine which types of graphs are appropriate
(pgs. 43-63)	NM	MA.5.5.D.2.1	for various data sets.
		Pushing the En	
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		Content Stand	dards
New Mexico Mathem	atics		
Grade 6	0.1		
Activity/Lesson	State	Standards	
			Apply various measurement techniques and
			tools, units of measure, and degrees of
Llistom, of Aviation			accuracy to find accurate rational number
History of Aviation Propulsion (pgs. 5-9)	NINA	MA.6.6.M.2.1	representations for length, liquid, weight,
Propulsion (pgs. 5-9)	NM	IVIA.0.0.IVI.2. I	perimeter, temperature, and time.  Apply various measurement techniques and
			tools, units of measure, and degrees of
			accuracy to find accurate rational number
Chemistry (pgs. 25-			representations for length, liquid, weight,
41)	NM	MA.6.6.M.2.1	perimeter, temperature, and time.
<del></del>	INIVI	IVIA.0.0.IVI.2.1	Use equivalent representations for rational
			numbers (e.g., integers, decimals, fractions,
Physics and Math			percents, ratios, numbers with whole-number
(pgs. 43-63)	NM	MA.6.6.N.1.2	exponents).
Physics and Math	1		Demonstrate the relationship and equivalency
(pgs. 43-63)	NM	MA.6.6.N.2.3	among ratios and percents.
Physics and Math	1		- sing remote this personner.
(pgs. 43-63)	NM	MA.6.6.N.3.6	Interpret and use ratios in different contexts.

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Physics and Math	N. 10. 4		Explain and use symbols to represent unknown
(pgs. 43-63)	NM	MA.6.6.A.1.3	quantities and variable relationships.
Physics and Math			Explain and use the relationships among ratios,
(pgs. 43-63)	NM	MA.6.6.A.1.4	proportions, and percents.
Physics and Math			Demonstrate that a variable can represent a
(pgs. 43-63)	NM	MA.6.6.A.2.4	single quantity that changes.
Physics and Math			Demonstrate how changes in one variable affect
(pgs. 43-63)	NM	MA.6.6.A.2.5	other variables.
Physics and Math			Represent and explain changes using one-step
(pgs. 43-63)	NM	MA.6.6.A.4.1	equations with one variable.
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		Content Stand	dards
<b>New Mexico Mathem</b>	atics		
Grade 7			
Activity/Lesson	State	Standards	
History of Aviation			Solve problems involving rate, average speed,
Propulsion (pgs. 5-9)	NM	MA.7.7.A.1.6	distance, and time.
			Compare masses, weights, capacities,
History of Aviation			geometric measures, times, and temperatures
Propulsion (pgs. 5-9)	NM	MA.7.7.M.1.3	within measurement systems.
			Compare masses, weights, capacities,
Types of Engines (			geometric measures, times, and temperatures
pgs. 11-23)	NM	MA.7.7.M.1.3	within measurement systems.
			Compare masses, weights, capacities,
Chemistry (pgs. 25-			geometric measures, times, and temperatures
41)	NM	MA.7.7.M.1.3	within measurement systems.
			Use variables and appropriate operations to
Physics and Math			write an expression, an equation, or an
(pgs. 43-63)	NM	MA.7.7.A.2.2	inequality that represents a verbal description.
			Use letters as variables in mathematical
Physics and Math			expressions to describe how one quantity
(pgs. 43-63)	NM	MA.7.7.A.2.6	changes when a related quantity changes.
			Use variables and appropriate operations to
			write an expression, an equation, and/or an
Physics and Math			inequality that represents a verbal description
(pgs. 43-63)	NM	MA.7.7.A.4.1	involving change.
DI			Choose appropriate units of measure and ratios
Physics and Math			to recognize new equivalences (e.g., 1 square
(pgs. 43-63)	NM	MA.7.7.M.1.1	yard equals 9 square feet) to solve problems.
Physics and Math	N. 1. 1. 4	NAA 7 7 14 C C	Solve problems involving scale factors, ratios,
(pgs. 43-63)	NM	MA.7.7.M.2.3	and proportions.
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		Content Stand	dards
<b>New Mexico Mathem</b>	atics		
Grade 8			
Activity/Lesson	State	Standards	
History of Aviation			Solve multi-step problems that involve changes
Propulsion (pgs. 5-9)	NM	MA.8.8.A.4.4	in rate, average speed, distance, and time.

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symbols.
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•			Represent and analyze mathematical situations
41)		12.G.4.3	k² and k³, respectively.  Represent and analyze mathematical situations
Physics and Math		MA.9-12.9-	and structures using algebraic symbols. Solve
(pgs. 43-63)	NM	12.A.1.8	formulas for specified variables.
			Represent and analyze mathematical situations
Physics and Math		MA.9-12.9-	and structures using algebraic symbols. Solve
(pgs. 43-63)	NM	12.A.1.9	quadratic equations in one variable.
			Evaluate polynomial, rational, radical, and
Physics and Math		MA.9-12.9-	absolute value expressions for one or more
(pgs. 43-63)	NM	12.A.1.14	variables.
,			Solve linear equations and inequalities in one
Physics and Math		MA.9-12.9-	variable including those involving the absolute
(pgs. 43-63)	NM	12.A.1.17	value of a linear function.
Physics and Math	11111	MA.9-12.9-	Construct a linear function that represents a
(pgs. 43-63)	NM	12.A.2.4	given graph.
(pgs. 45-05)	INIVI	12.7.2.4	Explain and use function notation in both
Dhysics and Math		MA 0 10 0	
Physics and Math		MA.9-12.9-	abstract and contextual situations and evaluate
(pgs. 43-63)	NM	12.A.2.5	a function at a specific point in its domain.
Physics and Math		MA.9-12.9-	Graph a linear equation and demonstrate that it
(pgs. 43-63)	NM	12.A.2.6	has a constant rate of change.
(pgo. 10 00)	1400	12.7 (.2.0	Understand patterns, relations, functions, and
Dhysics and Math		MA 0 40 0	
Physics and Math		MA.9-12.9-	graphs. Graph a linear inequality in two
(pgs. 43-63)	NM	12.A.2.7	variables.
			Verify that a point lies on a line, given an
Physics and Math		MA.9-12.9-	equation of the line, and be able to derive linear
•	NM	12.A.3.7	equations given a point and a slope.
(pgs. 43-63)	INIVI	12.A.3.1	
			Represent and analyze mathematical situations
Rocket Activity (pgs.		MA.9-12.9-	and structures using algebraic symbols. Solve
69-75)	NM	12.A.1.8	formulas for specified variables.